

GP 1643
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PATENT
Docket No. 393382001600
Client Ref. 3248

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Laura Shires

Laura Shires

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Kevin L. GUNDERSON *et al.*

Serial No.: 09/394,230

Filing Date: September 13, 1999

For: NUCLEIC ACID ANALYSIS USING
COMPLETE N-MER ARRAYS

Examiner: Not Yet Assigned

Group Art Unit: 1643

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97**

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

This Information Disclosure Statement is submitted before receipt of a First Office Action on the merits; accordingly, no fee or separate requirements are necessary.

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Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

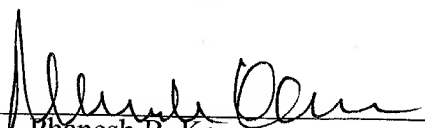
This Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the Patent Office determines that an extension and/or other relief is required, applicants petition for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing **393382001600**. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: February 14, 2000

Respectfully submitted,

By:


Phanesh B. Koneru
Registration No. 40,053

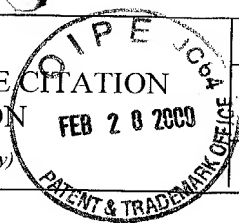
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Form PTO-1449

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

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Docket Number 393382001600

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U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	07/03/1984	4,458,066	Caruthers et al.	536	27	
	2.	02/19/1985	4,500,707	Caruthers et al.	536	27	
	3.	02/16/1988	4,725,677	Köster et al.	536	27	
	4.	09/01/1992	5,143,854	Pirrung et al.	436	518	
	5.	10/12/1993	5,252,743	Barrett et al.	548	303.7	
	6.	01/24/1995	5,384,261	Winkler et al.	436	518	
	7.	04/11/1995	5,405,783	Pirrung et al.	436	518	
	8.	05/02/1995	5,412,087	McGall et al.	536	24.3	
	9.	06/13/1995	5,424,186	Fodor et al.	435	6	
	10.	08/29/1995	5,445,934	Fodor et al.	435	6	
	11.	09/19/1995	5,451,683	Barrett et al.	548	302.7	
	12.	02/06/1996	5,489,678	Fodor et al.	536	22.1	
	13.	04/02/1996	5,503,980	Cantor	435	6	
	14.	04/23/1996	5,510,270	Fodor et al.	436	518	
	15.	06/18/1996	5,527,681	Holmes	435	6	
	16.	08/13/1996	5,545,531	Rava et al.	435	6	
	17.	11/05/1996	5,571,639	Hubbell et al.	430	5	
	18.	02/04/1997	5,599,695	Pease et al.	435	91.1	
	19.	04/29/1997	5,624,711	Sundberg et al.	427	261	
	20.	10/14/1997	5,677,195	Winkler et al.	436	518	
	21.	04/28/1998	5,744,101	Fodor et al.	422	131	
	22.	05/19/1998	5,753,788	Fodor et al.	536	22.1	
	23.	06/23/1998	5,770,722	Lockhart et al.	536	22.1	
	24.	06/30/1998	5,773,571	Nielsen et al.	530	300	
	25.	07/28/1998	5,786,461	Buchardt et al.	536	18.7	
	26.	11/17/1998	5,837,832	Chee et al.	536	22.1	

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(Use several sheets if necessary)

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Group Art Unit 1643

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	44.	Harlow et al. ed. <u>Using Antibodies: A Laboratory Manual</u> . Cold Spring Harbor Laboratory Press (Table of Contents)
	45.	Hermanson. (1996). <u>Bioconjugate Techniques</u> Academic Press. (Title Page and Table of Contents only).
	46.	Jones. (1989). "Preparation of Protected Deoxyribonucleosides," <u>Oligonucleotide Synthesis: A Practical Approach</u> . Gait ed., IRL Press, pp. 23-34.
	47.	Kozal et al. (1996). "Extensive Polymorphisms Observed in HIV-1 Clade B Protease Gene Using High-Density Oligonucleotide Arrays," <i>Nat. Med.</i> 2(7):753-759.
	48.	Kuznetsova et al. (1994). "DNA Sequencing by Hybridization with Gel-Immobilized Oligonucleotides: Expanding Applicability with Chemical Ligation," <i>Mol. Biol. (Mosk.)</i> 28(2):190-195.
	49.	Lipshutz (1993). "Likelihood DNA Sequencing By Hybridization," <i>J. Biomol. Struct. Dyn.</i> 11(3):637-653.
	50.	Lockhart et al. (1996). "Expression Monitoring by Hybridization to High Density Oligonucleotide Arrays," <i>Nat. Biotech.</i> 14:1675-1680.
	51.	Lysov Iu et al. (1988). "A New Method for Determining the DNA Nucleotide Sequence by Hybridization with Oligonucleotides," <i>Dokl. Akad. Nauk SSSR</i> 303:1508-1511. (English translation provided).
	52.	Pease et al. (1994). "Light -Generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91:5022-5026.
	53.	Sambrook et al. ed. (1989). <u>Molecular Cloning: A Laboratory Manual</u> Second Edition. Cold Spring Harbor Laboratory Press. (Table of Contents only)
	54.	Sanghvi et al. ed. (1994). <u>Carbohydrate Modifications in Antisense Research</u> ACS Symp. Ser. #580, ACS Washington D.C. (Title Page and Table of Contents only).
	55.	Shabarova. (1988). "Chemical Development in the Design of Oligonucleotide Probes for Binding to DNA and RNA," <i>Biochimie</i> 70:1323-1334.
	56.	Spector et al. ed. <u>Cells: A Laboratory Manual</u> . Cold Spring Harbor Laboratory Press. (Title Page and Table of Contents only)
	57.	Wodicka et al. (1997). "Genome-Wide Expression Monitoring in <i>Saccharomyces cerevisiae</i> ," <i>Nat. Biotech.</i> 15:1359-1367.
	58.	Young et al. (1983). "Efficient Isolation of Genes by Using Antibody Probes," <i>Proc. Natl. Acad. Sci., U.S.A.</i> , 80:1194-1198.

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FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO	
	27.	11/16/1989	WO 89/10977 A1	PCT				
	28.	11/30/1989	WO 89/11548 A1	PCT				
	29.	12/13/1990	WO 90/15070 A1	PCT				
	30.	06/25/1992	WO 92/10092 A1	PCT				

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	31.	Ausubel et al. ed. (1996) <u>Current Protocols in Molecular Biology</u> John Wiley and Sons, Inc. (Table of Contents only).
	32.	Atkinson et al. (1989). "Solid-Phase Synthesis of Oligodeoxyribonucleotides by the Phosphitetriester Method," <u>Oligonucleotide Synthesis: A Practical Approach</u> Gait. ed., IRL Press. pp.: 35-81.
	33.	Bains et al. (1988). "A Novel Method for Nucleic Acid Sequence Determination,," <u>J. Theor. Biol.</u> 135:303-307.
	34.	Berger et al. (1987). "Guide to Molecular Cloning Techniques," <u>Methods In Enzymology</u> Academic Press, Inc. vol. 152. (Title Page and Table of Contents only)
	35.	Birren et al. ed. <u>Genome Analysis: A Laboratory Manual Series (Vol. II)</u> Cold Spring Harbor Laboratory Press. (Title Page and Table of Contents only)
	36.	Chee et al. (1996). "Accessing Genetic Information With High-Density DNA Arrays," <u>Science</u> 274:610-614.
	37.	Cronin et al. (1996). "Cystic Fibrosis Mutation Detection by Hybridization to Light-Generated DNA Probe Arrays," <u>Hum. Mutat.</u> 7:244-255.
	38.	Crooke et al. ed. (1993). <u>Antisense Research and Application</u> CRC Press. (Title page and Table of Contents only)
	39.	Dieffenbach et al. ed. (1995). <u>PCR Primer: A Laboratory Manual</u> Cold Spring Harbor Laboratory Press (Title Page and Table of Contents only)
	40.	Drmanac et al. (1989). "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," <u>Genomics</u> 4:114-128.
	41.	Fodor et al. (1993). "Multiplexed Biochemical Assays with Biological Chips," <u>Nature</u> 364:555-556.
	42.	Froehler et al., (1986). "Nucleoside H-Phosphonates: Valuable Intermediates in the Synthesis of Deoxyoligonucleotides," <u>Tetrahedron Letters</u> 27(4):469-472.
	43.	Hames et al. ed. (1985) <u>Nucleic Acid Hybridisation: A Practical Approach</u> IRL Press, Ltd. (Title Page and Table of Contents only)

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